

```
string="hello friend!"
```

```
print("h" in string)
```

```
print("friend" not in string)
```

output:

True

False

## FOR LOOP:

In Python, a for loop is used to iterate over a sequence (such as a list, tuple, dictionary, or string) and execute a block of code for each item in the sequence.

### Example:

```
number = [1,2,3,4,"saru"]
```

```
for num in number:
```

```
    print(num)
```

```
fruits=["apple","banana","watermelon"]
```

```
for fruit in fruits:
```

```
    print (fruit)
```

output:

1

2

3

4

saru

apple

banana

watermelon

example:

```
n= int(input("enter a number:-"))
```

```
for i in range(1,n+1):
```

```
    print(i)
```

output:

enter a number:-9

1

2

3

4

5

6

7

8

9

Example:

```
n= int(input("enter a value:-"))
```

```
for k in range(n,0,-1):
```

```
    print(k)
```

output:

enter a value:-6

6

5

4

3

2

1

### Example:

```
for A in range(1,10):
```

```
    if A%2==0:
```

```
        print(A,"even")
```

```
    else:
```

```
        print(A,"odd")
```

### output:

1 odd

2 even

3 odd

4 even

5 odd

6 even

7 odd

8 even

9 odd

### Example:

```
evensum=0
```

```
oddsum=0
```

```
for i in range(1,11):
```

```
    if i%2==0:
```

```
        evensum=evensum+i;
```

```
    else:
```

```
        oddsum=oddsum+i;
print(evensum,"evensum")
print(oddsum,"oddsum")
```

**output:**

30 evensum

25 oddsum

**Example:**

```
name="mani";
revResultStr=[]
revStr=""
for char in range(len(name)-1,-1,-1):
    revResultStr.append(name[char])
    revStr+=name[char]
    print(name[char])
    print(revResultStr)
    print(revStr)
```

**output:**

i

['i']

i

n

['i', 'n']

in

a

['i', 'n', 'a']

ina

m

['i', 'n', 'a', 'm']

inam

### example:

```
string = input("enter a string:").lower()
```

```
vowels=0
```

```
consonants=0
```

```
for char in string:
```

```
    if char in 'ajecgsd':
```

```
        vowels+=1
```

```
    else:
```

```
        consonants+=1
```

```
print("vowels:",vowels)
```

```
print("consonants:",consonants)
```

### out put:

```
enter a string:10k codes
```

```
vowels: 4
```

```
consonants: 5
```